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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: [year=2010; month=2; day=19; hr=9; min=49; sec=13; ms=590;]

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Application No: 10021753 Version No: 3.0

Input Set:

Output Set:

Started: 2010-02-12 09:32:45.630
Finished: 2010-02-12 09:32:46.621
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 991 ms
Total Warnings: 9
Total Errors: 0
No. of SeqIDs Defined: 12
Actual SeqID Count: 12

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W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)

SEQUENCE LISTING

<110> FUJISE, KEN
YEH, EDWARD T.H.

<120> METHODS AND COMPOSITIONS RELATING TO FORTILIN, AN
ANTI-APOPTOTIC MOLECULE, AND MODULATORS OF FORTILIN

<130> UTSH:251US

<140> 10021753
<141> 2001-10-30

<150> 60/244,416
<151> 2000-10-30

<160> 12

<170> PatentIn Ver. 2.1

<210> 1
<211> 830
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (95)..(613)

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Met Ile Ile Tyr Arg Asp Leu
1 5

atc agc cac gat gag atg ttc tcc gac atc tac aag atc cgg gag atc 163
Ile Ser His Asp Glu Met Phe Ser Asp Ile Tyr Lys Ile Arg Glu Ile
10 15 20

gcg gac ggg ttg tgc ctg gag gtg gag ggg aag atg gtc agt agg aca 211
Ala Asp Gly Leu Cys Leu Glu Val Glu Gly Lys Met Val Ser Arg Thr
25 30 35

gaa ggt aac att gat gac tcg ctc att ggt gga aat gcc tcc gct gaa 259
Glu Gly Asn Ile Asp Asp Ser Leu Ile Gly Gly Asn Ala Ser Ala Glu
40 45 50 55

ggc ccc gag ggc gaa ggt acc gaa agc aca gta atc act ggt gtc gat 307
Gly Pro Glu Gly Glu Gly Thr Glu Ser Thr Val Ile Thr Gly Val Asp
60 65 70

att gtc atg aac cat cac ctg cag gaa aca agt ttc aca aaa gaa gcc 355
Ile Val Met Asn His His Leu Gln Glu Thr Ser Phe Thr Lys Glu Ala
75 80 85

tac aag aag tac atc aaa gat tac atg aaa tca atc aaa ggg aaa ctt 403
Tyr Lys Lys Tyr Ile Lys Asp Tyr Met Lys Ser Ile Lys Gly Lys Leu
90 95 100

gaa gaa cag aga cca gaa aga gta aaa cct ttt atg aca ggg gct gca 451
Glu Glu Gln Arg Pro Glu Arg Val Lys Pro Phe Met Thr Gly Ala Ala
105 110 115

gaa caa atc aag cac atc ctt gct aat ttc aaa aac tac cag ttc ttt 499
Glu Gln Ile Lys His Ile Leu Ala Asn Phe Lys Asn Tyr Gln Phe Phe
120 125 130 135

att ggt gaa aac atg aat cca gat ggc atg gtt gct cta ttg gac tac 547
Ile Gly Glu Asn Met Asn Pro Asp Gly Met Val Ala Leu Leu Asp Tyr
140 145 150

cgt gag gat ggt gtg acc cca tat atg att ttc ttt aag gat ggt tta 595
Arg Glu Asp Gly Val Thr Pro Tyr Met Ile Phe Phe Lys Asp Gly Leu
155 160 165

gaa atg gaa aaa tgt taa caaatgtggc aattattttg gatctatcac 643
Glu Met Glu Lys Cys
170

ctgtcatcat aactggcttc tgcttgatcat ccacacaaca ccaggactta agacaaatgg 703

gactgatgtc atcttgagct cttcatttat tttgactgtg atttattttg agtggaggca 763

ttgttttttaa gaaaaacatg tcatgtaggt tgtctaaaaa taaaatgcat ttaaactcat 823

ttgagag 830

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<211> 172
<212> PRT
<213> Homo sapiens

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Ile Tyr Lys Ile Arg Glu Ile Ala Asp Gly Leu Cys Leu Glu Val Glu
20 25 30
Gly Lys Met Val Ser Arg Thr Glu Gly Asn Ile Asp Asp Ser Leu Ile
35 40 45
Gly Gly Asn Ala Ser Ala Glu Gly Pro Glu Gly Glu Gly Thr Glu Ser
50 55 60
Thr Val Ile Thr Gly Val Asp Ile Val Met Asn His His Leu Gln Glu
65 70 75 80
Thr Ser Phe Thr Lys Glu Ala Tyr Lys Lys Tyr Ile Lys Asp Tyr Met
85 90 95
Lys Ser Ile Lys Gly Lys Leu Glu Glu Gln Arg Pro Glu Arg Val Lys
100 105 110
Pro Phe Met Thr Gly Ala Ala Glu Gln Ile Lys His Ile Leu Ala Asn
115 120 125
Phe Lys Asn Tyr Gln Phe Phe Ile Gly Glu Asn Met Asn Pro Asp Gly
130 135 140

Met Val Ala Leu Leu Asp Tyr Arg Glu Asp Gly Val Thr Pro Tyr Met
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Ile Phe Phe Lys Asp Gly Leu Glu Met Glu Lys Cys
165 170

<210> 3
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<212> PRT
<213> Rabbit

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Ile Tyr Lys Ile Arg Glu Ile Ala Gly Gly Leu Cys Leu Glu Val Glu
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Gly Lys Met Val Ser Arg Thr Glu Gly Asn Ile Asp Asp Ser Leu Ile
35 40 45

Gly Gly Asn Ala Ser Ala Glu Gly Pro Glu Gly Glu Gly Thr Glu Ser
50 55 60

Thr Val Ile Thr Gly Val Asp Ile Val Met Asn His His Leu Gln Glu
65 70 75 80

Thr Ser Phe Thr Lys Glu Ala Tyr Lys Lys Tyr Ile Lys Asp Tyr Met
85 90 95

Lys Ser Ile Lys Gly Lys Leu Glu Glu Gln Arg Pro Glu Arg Val Lys
100 105 110

Pro Phe Met Thr Gly Ala Ala Glu Gln Ile Lys His Ile Leu Ala Asn
115 120 125

Phe Lys Asn Tyr Gln Phe Tyr Ile Gly Glu Asn Met Asn Pro Asp Gly
130 135 140

Met Val Ala Leu Leu Asp Tyr Arg Glu Asp Gly Val Thr Pro Phe Met
145 150 155 160

Ile Phe Phe Lys Asp Gly Leu Glu Met Glu Lys Cys
165 170

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<211> 172
<212> PRT
<213> Mus musculus

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Ile Tyr Lys Ile Arg Glu Ile Ala Asp Gly Leu Cys Leu Glu Val Glu

Pro Phe Met Thr Gly Ala Ala Glu Gln Ile Lys His Ile Leu Ala Asn
115 120 125

Phe Lys Asn Tyr Gln Phe Phe Ile Gly Glu Asn Met Asn Pro Asp Gly
130 135 140

Met Val Ala Leu Leu Asp Phe Arg Glu Asp Gly Val Thr Pro Tyr Met
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Ile Phe Phe Lys Asp Gly Leu Glu Ile Glu Lys Cys
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<210> 6
<211> 172
<212> PRT
<213> D. Melanogaster

<400> 6

Met Lys Ile Tyr Lys Asp Ile Ile Thr Gly Asp Glu Met Phe Ala Asp
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Thr Tyr Lys Met Lys Leu Val Asp Asp Val Ile Tyr Glu Val Tyr Gly
20 25 30

Lys Leu Ile Thr Arg Gln Gly Asp Asp Ile Lys Leu Glu Gly Ala Asn
35 40 45

Ala Ser Ala Glu Glu Ala Asp Glu Gly Thr Asp Ile Thr Ser Glu Ser
50 55 60

Gly Val Asp Val Val Leu Asn His Arg Leu Thr Glu Cys Phe Ala Phe
65 70 75 80

Gly Asp Lys Lys Ser Tyr Thr Leu Tyr Leu Lys Asp Tyr Met Lys Lys
85 90 95

Val Leu Ala Lys Leu Glu Glu Lys Ser Pro Asp Gln Val Asp Ile Phe
100 105 110

Lys Thr Asn Met Asn Lys Ala Met Lys Asp Ile Leu Gly Arg Phe Lys
115 120 125

Glu Leu Gln Phe Phe Thr Gly Glu Ser Met Asp Cys Asp Gly Met Val
130 135 140

Ala Leu Val Glu Tyr Arg Glu Ile Asn Gly Asp Ser Val Pro Val Leu
145 150 155 160

Met Phe Phe Lys His Gly Leu Glu Glu Glu Lys Cys
165 170

<210> 7
<211> 181
<212> PRT
<213> C. ELEGANS

<400> 7

Met Leu Ile Tyr Lys Asp Ile Ile Ser Asp Asp Glu Leu Ser Ser Asp
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Ser Phe Pro Met Lys Leu Val Asp Asp Leu Val Tyr Glu Phe Lys Gly
20 25 30

Lys His Val Val Arg Lys Glu Gly Glu Ile Val Leu Ala Gly Ser Asn
35 40 45

Pro Ser Ala Glu Glu Gly Ala Glu Asp Asp Gly Ser Asp Glu His Val
50 55 60

Glu Arg Gly Ile Asp Ile Val Leu Asn His Lys Leu Val Glu Met Asn
65 70 75 80

Cys Tyr Glu Asp Ala Ser Met Phe Lys Ala Tyr Ile Lys Lys Phe Met
85 90 95

Lys Asn Val Ile Asp His Met Glu Lys Asn Asn Arg Asp Lys Ala Asp
100 105 110

Val Asp Ala Phe Lys Lys Lys Ile Gln Gly Trp Val Val Ser Leu Leu
115 120 125

Ala Lys Asp Arg Phe Lys Asn Leu Ala Phe Phe Ile Gly Glu Arg Ala
130 135 140

Ala Glu Gly Ala Glu Asn Gly Gln Val Ala Ile Ile Glu Tyr Arg Asp
145 150 155 160

Val Asp Gly Thr Glu Val Pro Thr Leu Met Leu Val Lys Glu Ala Ile
165 170 175

Ile Glu Glu Lys Cys
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<210> 8

<211> 166

<212> PRT

<213> S. Cerevisiae

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Met Ile Ile Tyr Lys Asp Ile Phe Ser Asn Asp Glu Leu Leu Ser Asp
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20 25 30

Ala Met Val Asn Val Gly Gly Asp Asn Ile Asp Ile Gly Ala Asn Pro
35 40 45

Ser Ala Glu Gly Gly Asp Asp Asp Val Glu Glu Gly Ala Glu Met Val
50 55 60

Asn Asn Val Val His Ser Phe Arg Leu Gln Gln Thr Ala Phe Asp Lys
65 70 75 80

Lys Ser Phe Leu Thr Tyr Ile Lys Gly Tyr Met Lys Ala Val Lys Ala
85 90 95

Lys Leu Gln Glu Thr Asn Pro Glu Glu Val Pro Lys Phe Glu Lys Gly
100 105 110

Ala Gln Thr Tyr Val Lys Lys Val Ile Gly Ser Phe Lys Asp Trp Glu
115 120 125

Phe Phe Thr Gly Glu Ser Met Asp Pro Asp Ala Met Val Val Met Leu
130 135 140

Asn Tyr Arg Glu Asp Gly Thr Thr Pro Phe Val Ala Ile Trp Lys His
145 150 155 160

Gly Ile Val Glu Glu Lys
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<210> 9
<211> 168
<212> PRT
<213> RICE

<400> 9

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Ser Phe Pro Tyr Arg Glu Ile Glu Asn Gly Ile Leu Trp Glu Val Asp
20 25 30

Gly Lys Trp Val Val Gln Gly Ala Ile Asp Val Asp Ile Gly Ala Asn
35 40 45

Pro Ser Ala Glu Gly Gly Gly Asp Asp Glu Gly Val Asp Asp Gln Ala
50 55 60

Val Lys Val Val Asp Ile Val Asp Thr Phe Arg Leu Gln Glu Gln Pro
65 70 75 80

Pro Phe Asp Lys Lys Gln Phe Val Thr Phe Met Lys Arg Tyr Ile Lys
85 90 95

Asn Leu Ser Ala Lys Leu Asp Ala Glu Lys Gln Glu Glu Phe Lys Phe
100 105 110

Asn Ile Glu Gly Ala Thr Lys Tyr Leu Leu Gly Lys Leu Lys Asp Leu
115 120 125

Gln Phe Phe Val Gly Glu Ser Met His Asp Asp Gly Gly Leu Val Phe
130 135 140

Ala Tyr Tyr Lys Asp Gly Ala Thr Asp Pro Thr Phe Leu Tyr Phe Ser
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His Gly Leu Lys Glu Val Lys Cys
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<210> 10
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<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

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Glu Gln Arg Pro Glu Arg
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<210> 11
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

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Thr Val Phe Gln Gly
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<210> 12
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

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1 5 10 15

Arg Glu